APPENDIX G

SUPPORTING INFORMATION FOR SOCIOECONOMICS

SOCIOECONOMICS

Inputs and assumptions for the economic model used for the socioeconomic analysis are shown on the following pages.

Environmental Justice (EJ) Information

USEPA responded to EO 12898 by developing the Environmental Justice Strategy that focuses on the agency's efforts in addressing these concerns. The U.S Air Force published additional guidance called The Interim Guide for Environmental Justice Analysis with the Environmental Impact Analysis Process (EIAP) (U.S. Air Force, 1997). This guide contains a general approach for conducting EJ analysis in conjunction with Air Force Instruction (AFI) 32-7061 (EIAP). This is the first step in conducting an EJ assessment for Eglin AFB. Additionally, the United States Environmental Protection Agency (USEPA) Region 4 office has a set of EJ guidelines to follow. This region has a methodology that analyzes demographic data for the affected communities that assists in analyzing the adverse environmental impacts for minority and low-income populations. The definitions that follow were used in this analysis:

Minority population: All people of Hispanic origin, regardless of race, and all Non-Hispanic people who are Black, American Indian, Eskimo or Aleut, Asian or Pacific Islander, or Other race are included in the minority population. The percentage of minority people is calculated as a percentage of the total county population.

Low-income population: Poverty status is used to calculate the low-income population. Poverty status is defined as people living below the poverty level (\$18,100 for a family of four in 2002, adjusted based on household size) as reported in the 2002 Poverty Guidelines, Federal Register, Volume 67, No. 331, February 14, 2002. The percentage of low-income people is calculated as a percentage of all people for whom the Bureau of the Census determines poverty status, which is generally a slightly lower number of people than the total population, based on a sample.

This EO also requires the application of equal consideration for Native American programs. This issue, along with the associated public participation mechanisms, is fully addressed via Eglin's compliance with the following:

- The Antiquities Act of 1906
- The Sites Act of 1935
- The National Historic Preservation Act of 1974
- The Archaeological Resources Protection Act of 1979
- The Native American Graves Protection and Repatriation Act of 1990
 - The American Indian Religious Freedom Act

MFH COST MODEL

EGLIN/HURLBURT MHF EIS: PROJECT CHARACTERIZATION

THE TABLE BELOW ILLUSTRATES THE SIZE (IN SQUARE FEET, BY NO. OF BEDROOMS) OF HOUSING UNITS BY GRADE

This File	Feeds	into'	"Housing Costs	Phasing.xls"
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Z ID 3Z5				
Rank	BR	SF	Cost in \$ 2004	
E1-E6	2	1,503	\$ 12	22,328
E7-E8	2	1,678	\$ 13	30,967
E1-E6	3	1,630	\$ 12	29,410
E7-E8	3	1,860	\$ 14	41,243
E9	3	2,020	\$ 14	48,490
E1-E6	4	1,990	\$ 14	45,371
E7-E8	4	2,190	\$ 19	54,102
E9	4	2,310	\$ 16	30,999
06	4	2,541	\$ 17	79,746
07+	4	2,541	\$ 17	79,746

BELOW SHOWS HOW ONE (E1-E6) HOUSE TYPE COSTING IS DERIVED Rank Bedrooms SF Excluding Garage 1,903 Average 1 story Detached Class of construction Residence Type Configuration Occupancy Solid Masonry (Average Custom) Exterior construction Living Area (Main Bldg) First Level 1,503 Second Level Third Level Total 1,503 MAIN BUILDING Costs Per S 28 0 0 96.95 \$/SFat 1,400 SF Smaller 1,600 SF 93.40 %/SF at Larger 1,503 SF 94.97 \$/SF Living Area 0 0% % Finished \$/SF Living Area 0% %Unfinished Basement. Roof Cover 0 \$/SF Living Area Type: 0 Separate Ducts Heating Ducts 2.80 \$/SF Living Area Heating Sy Subtotal Main Building \$/SF Living Area Type 97.77 \$/SF Living Area x Living Area Subtotal Base Cost 1,903 ŠF 146.944 Subtotal Additional Bathrooms 0 Full 4,080 Unit Cost 2,583 Unit Cost Additional Cost 2,583 Additional Cost 1 Half Finished Attic n Additional Cost O Square Feet Unit Cost Breezeway Open Width (ft) Obsed Length (ft) 0 Area (sf) UnitCost\$/sf \$ Additional Cost Covered Porch Open Obsed 20 Width (ft) 10 Length (ft) n 200 Area(sf) Unit Cost \$/st Additional Cost Ŧ, Fireplace Type O Number No. of Flues \$ 3,910 UnitCost 0 \$ Additional Cost Appliances Quality 1 30" built in 1 oven 1,163 Unit Cost Average Range 456 255 න න න 2speed 30" Unit Cost Dishwa 2-cycle Unit Cost 0 Gantag 147 UnitCost Ω Refige 18-20 CF Unit Cost Washin € 945 Unit Cost 0 Dryer ക ക 788 385 Unit Cost 0 Garage Unit Cost 4,974 Additional Cost

Kitchen Cabinet Adjustment

Military Family Housing DCR & L Program Eglin AFB/Hurlburt Field, FL Page G-3

BELOW SHOWS HOW ONE (07+) HOUSE TYPE COSTING IS DERIVED

Military Family Housing DCR & L Program Eglin AFB/Hurlburt Field, FL Page G-4

Rank Bedrooms SF Excluding Garage Class of construction Residence Type Configuration Occupancy Exterior construction	Average 1 story Detached One Family Solid Masonry (Average	2,541 e ○ustom)	
Living Area (Main Bldg) First Level Second Level Third Level Total		2,541 2,541	
MAIN BUILDING Page			
Costs Per (28 0 \$ 0 \$	63,30 \$KSF at 79,90 \$KSF at Interpolated Cost	2,400 SF Smaller 2,800 SF Larger 2,541 SF \$ 81.96 \$KSF Living Area
Basement. Roof Cover Central Air Heating Sy Subtotal Main Building x Living Area Subtotal Base Cost	0 0 0 0	0% % Finished Type Separate Ducts Type	0% %Unfinished \$\\$F Living Area \$\\$F Liv
Additional Bathrooms	o <mark>.</mark>	1 Full 1 Half	\$ 4,080 Unit Cost
Finished Attic	0	0 Square Feet	UnitCost Additional Cost
Breezeway	0	Open Width (ft) - Area (sf)	Closed Length (ft) Unit Cost \$ksf \$ - Additional Cost
Covered Porch	0	Open 20 Width(ft) 200 Area (sf)	x Closed 10 Length (ft) Unit Cost \$ksf \$ - Additional Cost
Fireplace	0	Type 1 Number	No. of Flues \$ 3,910 Unit Oost \$ 3,910.00 Additional Cost
Appliances Range Hood Dishwa Garbag Refrige Washir Dryer Garage	හ හ හ හ හ හ හ හ	1 30" built in 1 oven 2speed 30" 2-cycle 18-20 CF	Quality \$ 1,163 UnitCost Average \$ 456 UnitCost 0 \$ 255 UnitCost 0 \$ 147 UnitCost 0 \$ 835 UnitCost 0 \$ 945 UnitCost 0 \$ 788 UnitCost 0 \$ 385 UnitCost 0 \$ 385 UnitCost 0 \$ 385 UnitCost 0 \$ 385 UnitCost 0

Kitchen Cabinet Adjustment				Additional Cost
Garage	61 61 Masonry Average Attached	2 Number of Cars Material Quality Type	\$ 17,957 Unit Cost	\$ 17,957 Additional Cost
Miscellaneous				Additional Cost
ADJUSTED TOTAL BUILDING ∞ST				Adj Cost
Site Improvements Driveway	61 Concrete, 6"	Type 30 Ft Long 20 Ft Wide 600 Total SF	3.69 \$ \SF	\$ 2214 Additional Cost
Paths	61 Concrete, 4"	500 Total SF Type 60 Ft Long 3 Ft Wide 180 Total SF	\$ 2.71 \$KSF	\$ 2,214 Additional Cost \$ 488 Additional Cost
Rear Patii	61 Concrete, 4"	Type 15 Ft Long 30 Ft Wide 450 Total SF	\$ 2.71 \$\SF	\$ 1,220 Additional Cost
Landscaping Fine	61	14,520 Lot Size, SF 3,771 Less Building, Driveways and Pavi 10,749 SF Lawn		\$ 2245 Additional Cost
Sprin Fences	61 61	10,749 Type	\$ 0.72 \$\SF	\$ 7,739.28 Additional Cost
Swimmin Miscellar Subtotal Site Improvments	61 61	Length	\$\SF	Additional Cost Additional Cost Additional Cost
TOTAL BUILDING COST INCLUDING SITE	IMPROVMENTS			\$ 262,786
Location Fa	449 Zip 325 Pensacola			0.76
LOCAL BUILDING COST				\$ 199,718
Reduction:	12 2004 National Building Cos	st Manual	10.0% Percent	\$ 19,972
Cost in 2004 Dollars				\$ 179,746

Military Family Housing DCR & L Program Eglin AFB/Hurlburt Field, FL Page G-5

CONSTRUCTION SCHEDULE USED IN COST MODELING

Timeline Schedule - Construction				2015	0	2015	2015
Index	Rank		SF	Bedrooms Existing	Const	Cor	stChk Cost
1 Eglin 2 Eglin 3 Eglin 4 Eglin 5 Eglin 6 Eglin 6 Eglin 7 Eglin 8 Eglin 10 Eglin 11 Hurlburt 14 Hurlburt 15 Hurlburt 19 Hurlburt 19 Hurlburt 20 Hurlburt 21 Hurlburt 22 Hurlburt 22 Hurlburt	E1-E6 E7-E8 E1-E6 E7-E8 E9 E1-E6 E7-E8 E9 E1-E6 E7-E8 E7-E8 E7-E8 E1-E6 E7-E8 E1-E6 E7-E8 E9	01-03 01-03 04-05 06 07+ 01-03 01-03 04-05 01-03 04-06 01-03 04-06 06 07+	1,903 1,678 1,630 2,020 2,190 2,310 2,541 2,541 1,678 1,860 2,020 2,190 2,190 2,341 2,541 2,541 2,541	2 2 3 3 4 4 4 4 4 2 2 3 3 4 4 4 4 4 4 4		682 76 222 77 45 248 98 38 16 2 312 40 70 32 16 22 10 6 3	682 \$ 122,328 76 \$ 130,967 222 \$ 129,410 77 \$ 141,243 45 \$ 148,490 248 \$ 145,371 98 \$ 154,102 38 \$ 160,599 16 \$ 179,746 2 \$ 179,746 312 \$ 122,328 40 \$ 109,667 70 \$ 141,243 32 \$ 148,402 16 \$ 145,371 22 \$ 154,102 10 \$ 160,346 3 \$ 179,746
Roads and Sidewalks	NE VOOTED						
Non-GOQ / SOQ neighboor hood Average Units Per Acre Average lot size Assumed Lot Dimension Road Frontage	3 0.3333 14,520 100 145	sf ft	arbitary				
Lot depth GOQ / SOQ neighborhood Average Units Per Aore Average lot size Assumed Lot Dimension Road Frontage	2 0.5000 21,780 125	Aore sf	arbitrary				
Lot depth Roadways Non-GOQ / SOQ units GOQ / SOQ units Total Units	1,999 16 2,015		arbitary				
Length of Roadways Assume homes on 2 sides of street Plus additional factor of Non-GOQ / SOQ Roads GOQ / SOQ Roads	25% 124,938 1,250 126,188 23,90	ft.	-				
Width of Roads	\$ 88.50			bituminous , SF book, 2004, p. 4	114		
Cost of Paved Area	\$ 11,167,594						
Curb and Gutter Total Curb and Gutter Total Cost of Roadway	22.96 \$ 2,897,265 \$ 14,064,859	LF Roadway	Both Sides	; p 381 2004 Nationa	al		
Sidewalks, assume both sides Length Width Cost of Sidewalks	1,261,875	ft	4" Thick RS Means	, SF Book, 2004, p. 6	1 1		
	5,4,5,601			,,, p. c			

334	200	210	213	210	282	285	0	281	0	\$41,806,481	\$24,465,538	\$26,080,557	\$26,754,882	\$29,029,129	\$39,081,996	\$36,618,354 \$		\$43,306,402	\$-	\$267,143,339 \$267,143,339
2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2005	2006	2007	2008	2009	2010	2011 2	012	2013	2014	Total
200 134	200	201	81 76 6	82 77 41 10	199 83	39 179 40 27		98 38 13 43 32 16 22				\$24,587,665 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	\$ 9,908,543 \$ 9,953,495 \$ 776,460 \$ - \$ - \$ - \$ - \$ - \$ -	\$ - \$ \$10,611,622 \$10,875,689 \$ 6,088,109 \$ 1,453,708 \$ - \$ \$ - \$	\$ - \$ - \$ - \$ - \$28,928,798 \$ - \$ - \$ -	\$ - \$ \$ - \$ \$ - \$ \$ - \$	-	\$	* * * * * * * * * * * * * * * * * * * *	\$ 83,427,484 \$ 9,953,495 \$ 28,729,026 \$ 10,875,689 \$ 6,682,071 \$ 36,051,970 \$ 15,101,950 \$ 6,102,756 \$ 2,875,934 \$ 38,166,239 \$ 5,238,682 \$ 5,288,682 \$ 9,886,290 \$ 4,751,695 \$ 2,255,934 \$ 3,390,224
								10 6 3		\$ - \$ - \$ -	\$ - \$ - \$ -	\$ - \$ - \$ -	\$. \$.	\$ - \$ - \$	\$ - \$ - \$ -	\$ - \$ \$ - \$ \$ - \$		\$ 1,605,988	\$- \$- \$-	\$ 1,605,988 \$ 1,078,475 \$ 539,238

Appendix G

Supporting Information for Socioeconomics

1 References:

2

- U.S. Air Force, 1997. *Interim Guide for Environmental Justice Analysis with the Environmental Impact Analysis Process (EIAP)*. Department of the Air Force, November 1997.
- 5 Federal Register, 2002. 2002 Poverty Guidelines. Federal Register, Volume 67, No. 331, February 14, 2002.